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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/873,408	06/05/2001	Minoru Yonezawa	P 281351 T4TY-01S0006-1	1821
909	7590	06/07/2006		EXAMINER
		PILLSBURY WINTHROP SHAW PITTMAN, LLP		GOMA, TAWFIK A
		P.O. BOX 10500		
		MCLEAN, VA 22102	ART UNIT	PAPER NUMBER
				2627

DATE MAILED: 06/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/873,408	YONEZAWA ET AL.	
	Examiner	Art Unit	
	Tawfik Goma	2627	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 12 April 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1,2 and 5 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1,2 and 5 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 05 June 2001 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

This action is in response to the amendment filed 4/12/2006.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamamoto et al (US 6028826) in view of Fushimi et al (US 6091678).

Regarding claim 1, Yamamoto discloses an objective lens driving apparatus (fig. 1) comprising: an objective lens (105, fig. 1); an objective lens holder for holding the objective lens (110, 106, fig. 1), the objective lens holder being supported to be movable in an optical axis direction of a light beam made incident on the objective lens and a direction perpendicular to the optical axis direction (105, fig. 1 and col. 1 lines 39-47); a focusing coil (106, fig. 1) for driving the objective lens holder in the optical axis direction (col. 1 lines 40-43); a tracking coil (106, fig. 1) for driving the objective lens holder in the direction perpendicular to the optical axis direction (col. 1, lines 43-45); focus detection means for detecting a positioning error of the objective lens holder in the optical axis direction (114, fig. 1); tracking detection means for detecting a positioning error of the objective lens holder in the direction perpendicular to the optical axis direction (120, fig. 1); focus control means for receiving a detection signal from the focus detection means and outputting an arithmetic operation result of this

detection signal to the focusing coil (150, 115, fig. 1); tracking control means for receiving a detection signal from the tracking detection means and outputting an arithmetic operation result of this detection signal to the tracking coil (150, 122, fig. 1); and compensation means for receiving at least one of output signals from the focus control means and the tracking control means (115, 122, 117, 124, fig. 1), and adding an arithmetic operation result of the received signal to an output signal from the tracking control means to the tracking coil or to an output signal from the focus control means to the focusing coil (115, 122, fig. 1) and determination means for temporarily restricting functions of the compensation means (col. 15 lines 44-47) when the determination means has determined that a disturbance component is mixed in (fig. 8a, 8b and col. 16 lines 57-61) the detection signal (131, fig. 1 and fig. 7a, 7b, 8a, 8b)) , Figs. 8a, and 8b show a vibration disturbance mixed into the tracking error signal while figs. 7a, 7b show a disc scratch disturbance resulting in a lack of signal mixed into the RF signal. Both the disc scratch and the vibration disturbances are mixed into the detection signals. Figs. 9a, 9b, and 9c show the output of the external disturbance applied to compensate the focusing and tracking signals when a disturbance is detected. The figs. 9a, and 9b clearly show that the compensation value (external disturbance value) is set to zero when an abnormality is detected in the signal.

Yamamoto fails to disclose change-over switch means configured to switch an arithmetic processing method in the compensation means in accordance with a tracking control state, wherein the change-over switch means corrects reversion of polarity, when the polarity of a detection signal detected by the tracking detection

means is reversed while the objective lens is being tracked to a desired position. In the same field of endeavor, Fushimi discloses changed over switch means for correcting reversion of polarity while the objective lens is being tracked to a desired position (128, 129, 130 and 131, fig. 1a and col. 6 lines 63-67 thru col. 7 lines 1-4). It would have been obvious to one of ordinary skill in the art to modify the apparatus taught by Yamamoto with the change-over switch means taught by Fushimi. The rationale is as follows: One of ordinary skill in the art at the time of the applicant's invention would have been motivated to provide a change-over switching means for correcting a reversion of polarity in order to use the device with a land/groove recording medium (see Fushimi fig. 2)

Regarding claim 5, Yamamoto further discloses wherein the compensation means performs arithmetic operations to provide such frequency characteristics as to pass a frequency component near a control band determined by the tracking control means and the focus control means (112a, 112b, fig. 1 and col. 10 lines 58-67).

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamamoto et al (US Patent 6028826) in view of Fushimi et al (US 6091678) as applied to claim 1 above and further in view of Baba (US Patent 576227).

Regarding claim 2, Yamamoto discloses wherein the compensation means arithmetically processes a jitter error signal and adds the arithmetic operation result to the output signal from the focus control means (col. 17 lines 10-15). Yamamoto does not disclose using the output signal from the tracking control means and adding the arithmetic result of the tracking control signal to the output signal from the focus control

means and to the focusing coil (see interpretation in claim objections above). In the same field of endeavor, Baba discloses adding the result of the tracking control signal to the focusing control signal and adding the sum to the focusing coil (42, 32, fig. 4). It would have been obvious to one of ordinary skill in the art to modify the compensation apparatus disclosed by Yamamoto in view Fushimi by adding the tracking error signal to the focusing control signal as taught by Baba. The rationale is as follows: One of ordinary skill in the art would have been motivated to compensate the focusing error signal by using the tracking error signal in order to eliminate cross talk effects during reproduction (see Baba col. 6 lines 19-20)

Response to Arguments

Applicant's arguments with respect to claim 1, 2 and 5 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Please note that art unit 2653 has been changed to workgroup 2627.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tawfik Goma whose telephone number is (571) 272-4206. The examiner can normally be reached on 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on (571) 272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2627

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



T. Goma
6/5/2006



THANG V. TRAN
PRIMARY EXAMINER